

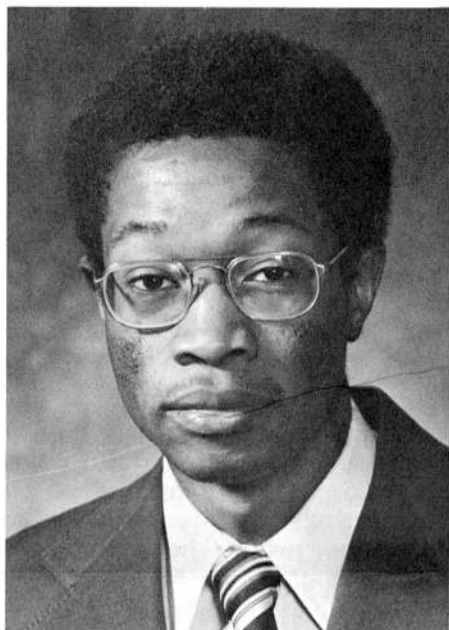
Nuclear Division News



A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

Vol. 8/No. 14 July 21, 1977

Two additional Wigner fellows join program



Elijah Johnson

Two appointments under the Eugene P. Wigner Fellowship Program have been announced by Herman Postma, ORNL director.

The new fellows, who join four others appointed when the program began last year, are: Brian E. Hingerty, now a postdoctoral fellow at the Medical Research Council's

Laboratory of Molecular Biology, Cambridge, England, who will begin work in the Biology Division this summer; and Elijah Johnson, a member of the Chemistry Division since October 1976, who will continue his research with the division's structural chemistry group.

The Wigner Fellowships honor the Nobel laureate who was the Laboratory's first director of research and development in 1946-47 and now serves as an ORNL consultant.

The two-year appointments provide opportunities for physical, life, and social scientists and engineers no more than three years past the doctorate to gain experience in areas of science and technology related to national energy problems and needs.

Hingerty received his B.S. in physics and mathematics from Brooklyn College in 1965 and his Ph.D. in physics from Princeton University in 1974, where he held a National Science Foundation graduate fellowship. He spent a year on a NATO postdoctoral fellowship at the Max Planck Institute for Experimental Medicine, and in 1975-76 received a National Institutes of Health postdoctoral fellowship to the

(Please see page 8)

Nuclear Division earns laurels for safety records



Thomas R. Miller

The Nuclear Division's employees were recognized this week by officials of the corporation, ERDA and the National Safety Council. The safety records set by the four plants in 1976 brought corporation recognition, citations from ERDA and the highest awards the NSC offers.

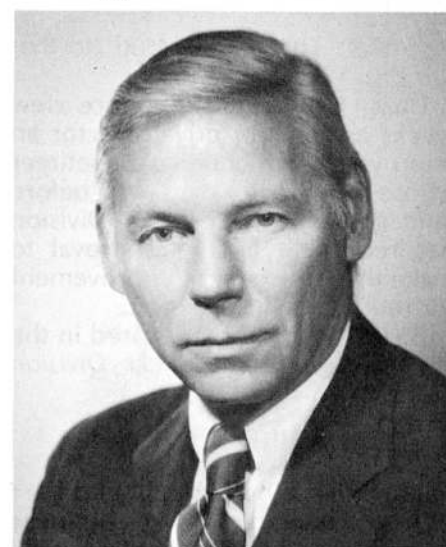
Present at the luncheon in Oak Ridge were Warren M. Anderson, President of Union Carbide Corporation; Thomas R. Miller, corporate vice president; and Vincent L. Tofany, president of the NSC.

Three plants earned Union Carbide's Safety Distinguished Performance Award, the corporation's highest award. ORGDP was recognized for its 4,314,479 man-hours; ORNL for its 6,375,994 man-hours; and Y-12 for its 7,110,652 man-hours worked without a lost-time accident.

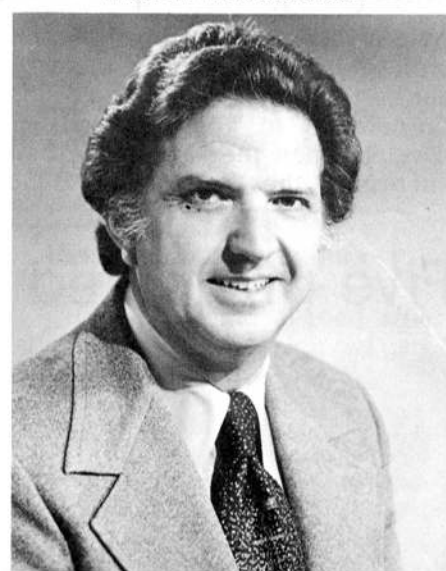
ERDA's Award of Achievement went to ORNL and Y-12 for reduction in lost-workday cases.

NSC's Award of Honor went to ORGDP for improvement in disabling injuries and severity rates; to ORNL and Y-12 for their long string of accident-free days. The Award of Honor is the Council's highest honor. The NSC also awarded ORGDP and PGDP its Award of Merit for their 1,763,551 and 1,909,000 man-hours without a lost-time injury.

Oak Ridge National Laboratory achieved the best 1976 installation safety record. ORNL employees worked the longest (7,643,614 man-hours) with only one disabling injury and matched their all time low disabling injury frequency rate of 0.13.



Warren M. Anderson



Vincent L. Tofany

A total of 13 occupational disabling injuries was recorded last year, the most serious one being the near fatal electrical accident where an employee received serious burns over approximately 50 percent of his body. Falls, the primary cause of disabling injuries (six), resulted in back, leg, arm and finger injuries.

The 1976's frequency rate for the Nuclear Division was 0.39, 36 percent lower than the 1975 rate. It compares to an expected 0.86 rate for the entire corporation. Frequency rates is defined as the number of disabling injuries for every million man-hours worked.

Off-the-job records did not compare too well with on-the-job performances, as usual. There was a total of 272 off-the-job disabling injuries, which included six fatalities.

(Please see page 2)

in this issue...

What's to do on a hot summer day? The Clark Center Recreation Park, designed for Union Carbide and ERDA employees, provided a few answers recently as the photographer caught Frisbee-playing in 95° weather; swimming, naturally; softball leagues (46-team strong); water skiing; girl-watching; loafing; a picnic here and there; and all the activities that go with the good old summertime. A photo story on the Park is found on page 4.

Other features:

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question box

If you have questions on company policy, write the Editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

Supplementing Social Security

QUESTION: Is there any truth to the rumor that when employees reach the magic total of 85 (age plus years of Company service) the Company will supplement their retirement income with the amount they would draw from Social Security until they reach retirement age if they want to take retirement now?

ANSWER: There is no truth to that rumor.

Union Carbide did announce a few weeks ago in the private sector an improvement in benefits for retirees whose retirement date was before January 1976. The Nuclear Division has requested ERDA's approval to make the same type of improvement for retirees in this Division.

An article on this appeared in the last issue of the *Nuclear Division News*.

Inter-division transfer

QUESTION: What is Union Carbide's policy concerning an employee transferring from one division to another within the Corporation?

ANSWER: Management and professional employees are regularly transferred from one division of the Corporation to another. Transfers develop when they are in the best interest of the Company and the

employee involved. Thus far in 1977, 11 employees have transferred into the Nuclear Division from other divisions of the Corporation, and three employees have transferred from the Nuclear Division to some other division.

Exempt salaried overtime?

QUESTION: At the Paducah plant employees have been working a large amount of overtime. Several months ago many departments were requiring a set amount of overtime per week to meet increased work loads.

When weekly and hourly employees are paid for their overtime, often their take-home pay is more than that of the monthly paid person. Can't something be done to correct this inequity?

ANSWER: Company policy regarding this subject was stated as follows in an earlier question box answer.

"Exempt employees are expected to work a certain amount of overtime, if this is necessary to accomplish their assigned responsibilities. If only a limited number of employees are involved, it is intended that some compensating time off be used to offset overtime if significant amounts are necessary over an extended period of time.

Named to Fusion Energy post

Paul N. Haubenreich has been appointed manager of the Large Coil Program in ORNL's Fusion Energy Division, Division Director John Clarke has announced.

Haubenreich, who has been with ORNL for 26 years, joined the Fusion Energy Division in 1973. Before assuming his present responsibilities, he was engaged in tokamak fusion reactor conceptual design and planning.

ORNL's Large Coil Program is part of the U. S. effort to develop practical fusion power tokamak reactors, a concept which depends upon the use of very strong magnetic fields to confine the fusion fuel. In order to avoid a heavy drain on the electrical power produced in the plant, the electromagnets used to produce these confining magnetic fields will probably need to be made with superconducting materials—special materials which, when chilled to temperatures near absolute zero, have the ability to conduct electrical current without resistance and thus without consumption of electrical energy. Tokamak magnets will be subjected to large asymmetric forces and varying magnetic fields, which present special problems for superconductors. The purpose of the Large Coil Program is to build and test several superconducting electromagnet coils of various designs in order to answer questions concerning fabricability, performance and cost.

Haubenreich, a native of Decherd, Tenn., received a B.S. in mechanical engineering from the University of Tennessee in 1950, and was chosen as one of 20 graduates to be sponsored by the Atomic Energy Commission in



Paul N. Haubenreich

the first regular class at the Oak Ridge School of Reactor Technology (ORSORT). At the conclusion of the term he remained with ORNL and was engaged in aqueous homogeneous reactor development until 1961. Subsequently, he worked with the Molten Salt Reactor Program, where he was in charge of the Molten Salt Reactor Experiment from 1964 to 1970 and was associate director of the program from 1971 to 1973.

A registered engineer in the state of Tennessee, Haubenreich also holds an M.S. degree in mechanical engineering from the University of Tennessee, where he has taught nuclear engineering on a part-time basis.

Haubenreich is married to the former Mary Ann Walker; they have four sons and one daughter. The family lives at 501 West Hills Road, Knoxville.

Five promoted at Paducah



Angelly



Byrd



Lowery



Staley



Washam

The Paducah Gaseous Diffusion Plant has announced the promotions of Stephen L. Angelly to a fire and guard captain; and Rickie E. Byrd, Henry A. Lowery III, Jeffery J. Staley and Patricia A. Washam to chemists.

Angelly joined Union Carbide in 1975, after working with United Parcel Service. He attended Southern

Illinois University, Paducah Community College and Murray State University. He and his wife, Evelyn, live at Route 1, Brookport, with their son, Nathan.

Byrd is a native of Clarksville, Tenn., and joined Union Carbide last year. He has a B.S. in chemistry from Austin Peay University. He and his wife, Connie, live on Glenn Street in Paducah.

Lowery received his B.S. in chemistry from Lane College and has done graduate work at Florida State. He joined Union Carbide in August of last year. He lives on 7th Street in Paducah.

Staley joined the Paducah facility last year after his graduation from Southern Illinois University. A native of Springfield, he was chosen as an Illinois State scholar and a President's

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scholar while a student. He lives on Route 5, Paducah.

Washam spent two summers at PGDP. She is an alumna of Murray State University and received the Roberta Whitnah scholarship and was selected by the faculty as the outstanding senior in chemistry on graduation. She lives on Fairview Drive, Paducah.

Safety laurels

(Continued from page 1)

Of these injuries, 113 occurred in the homes, 98 in transportation and 61 in public. Employee days lost due to off-the-job injuries totalled 9,308. . . more than seven times those lost due to on-the-job injuries.

Officials from the four Nuclear Division plants were at the luncheon to receive plaques and commendations for the outstanding safety records set for 1976.

safe thinking . . .

LIFE PRESERVERS—Spare tire, ice chest with clamp-on lid, gallon thermos jug—all are good emergency life preservers. A person in trouble in the water can stay afloat with one of these until help arrives.

Editor's Note — Don't be selfish with your safety tips! Call the **Nuclear Division News Office**, and tell us your stories or hints on safety.

patents granted

To James F. Ellis and Peter L. Walstrom, both of ORNL, for "Nonferromagnetic Linear Variable Differential Transformer."

Merl Baker named energy conservation coordinator

Merl Baker, former chancellor of the University of Missouri-Rolla and special assistant to the president of the University's state-wide system, has been named coordinator for the Energy Conservation Program at ORNL. The appointment was announced by Murray W. Rosenthal, ORNL associate director for Advanced Energy Systems.

In making the announcement, Rosenthal said, "ORNL's research and development program in energy conservation has grown substantially during the past few years and is an important part of our efforts to help solve the nation's energy problem. Our conservation work is performed in six different ORNL divisions, and is now funded by ERDA, the Department of Housing and Urban Development, and the Federal Energy Administration. We are pleased to have Merl Baker join us to coordinate this broad program."

Baker's new responsibilities include setting long-range goals for the Laboratory in energy conservation research, planning the program, and reviewing and monitoring the work.

Born in Cadiz, Ky., he received his bachelor's degree in mechanical engineering from the University of Kentucky in 1945, and his doctorate from Purdue University in 1952. For 10 years, he was executive director of the Kentucky Research Foundation and professor of mechanical engineering at the University of Kentucky.

Baker joined the Missouri School of Mines and Metallurgy as dean of faculties in 1963, and became



Merl Baker

chancellor in 1964 when the school was transformed into the University of Missouri-Rolla. He had served as special assistant to the president of the university's state-wide system since 1973.

Honors he has received include: the Pi Tau Sigma Gold Medal for outstanding achievements in mechanical engineering, the ASHRAE award for outstanding teaching and Purdue University's Distinguished Engineering Alumnus award. His special research area is energy conservation.

Baker and his wife, Emily, will live in Oak Ridge at 110 Cumberland View in September. They have a daughter, Marilyn Ruth, and son, Merl W.

safety scoreboard

Time worked without a lost-time accident through July 14:

Paducah	2 Days	26,240 Man-Hours
ORGDP	77 Days	2,580,200 Man-Hours
Y-12 Plant	149 Days	4,509,000 Man-Hours
ORNL	77 Days	1,753,492 Man-Hours



CERTIFIED TECHNICIANS—Technicians at the Paducah Plant receive plaques as Certified Engineering Technicians after fulfilling certification requirements. With them are their supervisors. From left are Rodney Martin, Jerry Carter, Chet Cummings, William J. McGee, Robert B. Piercy, Robert L. Echols, Billy Joe Stokes, Paul James, Joe T. King, Dan Stitt, Don Valentine and Dave Kaufman.

Five promoted at Y-12 Plant

Five promotions have been announced at the Y-12 Plant. James W. Cox has been named an accounting and budget officer in Materials and Services; David L. Daniels a process supervisor in Metal Preparation; and Gary W. Dean, Georgia A. Gregory and Billy R. Holbert have been promoted to supervisors in the Maintenance Division.

Cox, a native of Knoxville, will receive his degree in accounting from the University of Tennessee this year. He joined Union Carbide at ORNL in 1967 and transferred to Y-12 as a technical assistant in 1976.

He is married to the former Jeanette Lawson, and they live at 1820 Oak Street, Kingston. They have a daughter, Jana.

Daniels was born in Knoxville and has attended UT. He worked as a road foreman and with Automatic Sprinkler Inc. before joining Union Carbide in 1969.

He and his wife, the former Linda Welch, live at 2813 Shropshire Boulevard, Powell. They have a son, Gregory.

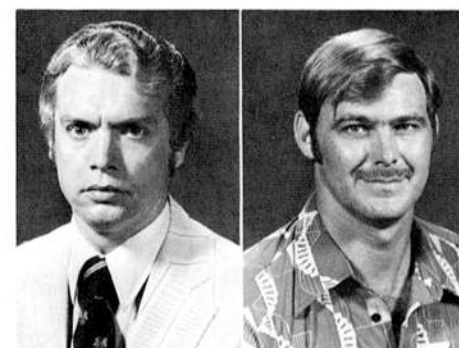
Dean, a native of Maryville, attended Tennessee State University before joining Union Carbide in 1972. He worked with TVA and Rhom and Haas prior to that time. Most recently he was assistant recreation director in Y-12.

He lives at 253 West Stephenson Street, Alcoa.

Gregory, a native of Alcoa, has been with Union Carbide 25 years. She worked at Proffit's prior to that time.

Gregory lives at 733 Owl Hollow Road, Knoxville.

Holbert, a native of Knoxville, worked with Youngstown Sheet and



Cox

Daniels



Dean

Gregory



Holbert

Tube Company before he joined Union Carbide six years ago.

He and his wife, the former Nancy Widener, live at 6608 O'Brien Road, Halls. They have three children, Billy, Michelle and Timmy.

Stinton promoted to design engineer



Stinton

Lisa H. Stinton, Engineering Division at ORNL, has been promoted to design engineer in the Chemical Process Design Department, where she is section leader of a new research and pollution control section.

A Nuclear Division employee since 1974, Stinton came to ORNL in December 1975 after working as an associate design engineer at ORGDP. She received her B.S. in civil engineering from Virginia Polytechnic Institute and State University, and her M.S. in environmental engineering was also from VPI.

She and her husband, David, a research engineer in Metals and Ceramics, live at 10929 Sallings Road, Concord.

IMPROVISED BACK BRACE—A flat door can be used as a back board to keep the spine aligned after a driving accident. The injured person should be carefully strapped onto the door so that his spine and neck cannot move.

Bloodmobile back August 3, 4

Who fed all those people who had to evacuate Rockwood? Who steps in when disaster strikes anywhere in the world? Who supplies needed blood whenever a patient needs it? The American Red Cross is always there, anytime, anywhere, when the need arises.

The Bloodmobile will visit Oak Ridge, at the Civic Center, again August 3, 4. . . hours on Wednesday are from 3 to 9 p.m.; on Thursday from noon until 6 p.m.

Be a regular blood donor. Come on down and join the friendly folks who care enough about others to share their healthy blood. If you can't give blood, how about volunteering to help at the Center. All kinds of volunteer assistance is needed.

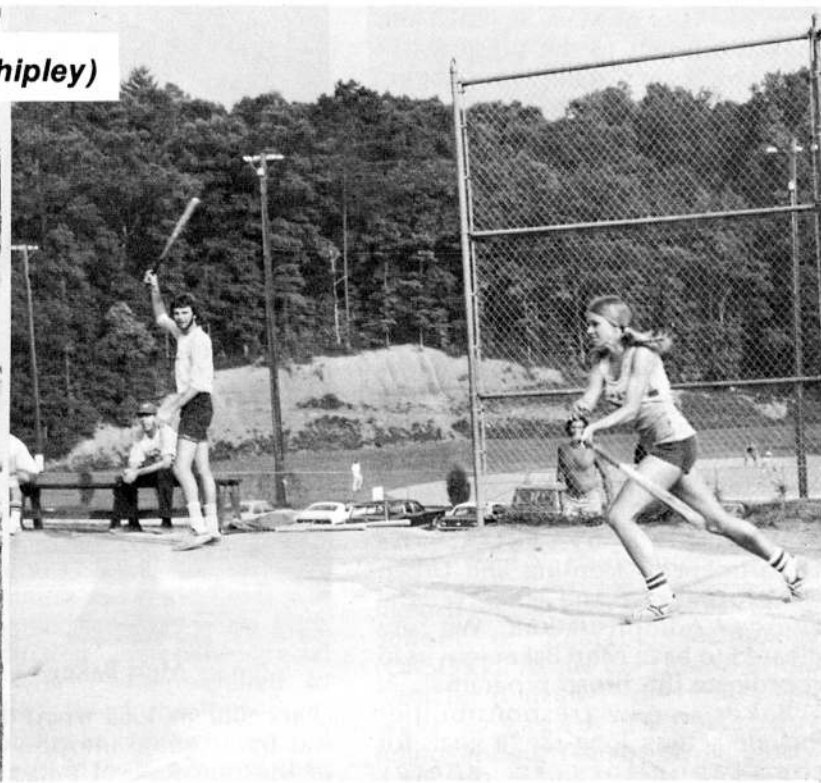
Just call the Red Cross, Oak Ridge telephone number 483-5641. They'll be happy to fit you into some useful slot.

What to do on a hot day? . . .how about the Park?

(Photos by William N. Shipley)



A day at the beach



A clean hit. . .



'Missed again. . .'



Chad Heavener takes it easy



'Whatcha mean safe?'



Finis G. Lacy, ERDA, son Gordon, Todd McCoig and Mrs. Lacy



Karen Hampton, Bruce Helton relax in the sun

ORNL passes stiff audits, recertified by ASME



In center, William G. Wilson, welding technologist in P&E's Fabrication Department, checks out the pressure vessel for leaks under the watchful eyes of, left, Ralph H. Jones, general foreman in Fabrication, and, right, Charles W. Colins, the responsible design engineer from ORNL Engineering.

To legally build and install pressure vessels and nuclear components, ORNL must pass a rigorous evaluation, once every three years, of each facet of its quality assurance program. After three days of intensive evaluation by a six-person ASME (American Society of Mechanical Engineers) survey team, ORNL passed inspection and was recertified.

Five ASME Code stamps were reissued to the Laboratory as an

endorsement of the workers, methods, quality assurance and materials used in the fabrication and installation of pressure vessels, heat exchangers and piping. These stamps are ASME "seals of approval" for any piece of equipment manufactured according to the Boiler and Pressure Vessel Code.

Much teamwork was required to gain recertification. Bob M. Farnham, superintendent of the Fabrication

Department, P&E Division, said: "The combined efforts of three main groups at ORNL were involved: the Quality Assurance and Inspection (QA&I) Department, Engineering Division, and Plant and Equipment (P&E) Division."

In preparation for the survey, two detailed manuals were prepared by 20 engineers from all three areas, under the direction of Jim N. Robinson, assistant head of the QA&I Department. They updated the system to incorporate the many ASME Code changes made in the last three years, and to further improve relationships among the divisions involved in Code work.

"As part of the testing, the survey team witnessed the actual fabrication of a nuclear pressure vessel," said Jim R. McGuffey, head of the Quality Assurance and Inspection Department and quality achievement manager for this project. "They also talked to 100 employees to assure that we were complying with our Controlled Manufacturing Program and thus producing high quality construction."

The survey team was composed of members from ASME, the Hartford Steam Boiler Inspection and Insurance Co., a Tennessee state representative and a public utility representative.

At the completion of the survey, a formal report was made by the ASME team leader to Laboratory Director Herman Postma. Several changes and improvements were required, which



Mansel E. Ramsey, assistant director of services at ORNL, hammers one of five ASME code stamps.

were immediately implemented. Afterwards, ASME officially notified ORNL that it could continue to perform the design, fabrication and installation of pressure-bearing facilities—both nuclear and conventional—in full accord with the ASME Code.

Three years ago, ORNL became the first Atomic Energy Commission (now ERDA) national laboratory to gain certification under the ASME Code. Since adherence to the Code was only required for commercial power plants, ORNL's acceptance of ASME standards amounted to voluntary compliance on the part of AEC, said ORNL Engineering Division Director Myer Bender, in a *Nuclear Division* News story appearing on July 5, 1974.

next issue...

The next issue will be dated August 4. The deadline is July 27.

about people...



Subramanian Raman, research staff member in ORNL's Physics Division, has been named a fellow of the American Physical Society. Raman works in the Oak Ridge Electron Linear Accelerator (ORELA) group, and was with the division's nuclear data project from 1966 to 1974.

A native of India, Raman received his B.S. in telecommunications from the University of Madras, his M.S. in electrical engineering from Rensselaer Polytechnic Institute, and his doctorate in physics from Pennsylvania State University.

He and his wife, Judy, live in Oak Ridge. They have three children.



John R. Dew, Technical Services at the Paducah Plant, has been named an Outstanding Young Man of America by the national Jaycees. Nominated by a Chicago television producer, Dew was recognized for his outstanding professional achievements, superior leadership ability and exceptional service to the community. A graduate of Kentucky Wesleyan, he is completing work on his master's degree at Murray State. Dew joined Union Carbide three years ago and lives in Kevil with his wife, Terri, and daughter, Heather.

K. Von Cook, engineer in ORNL's Metals and Ceramics (M&C) Division was recently elected a fellow of the American Society for Nondestructive Testing (ASNT). The award will be presented at the October ASNT annual meeting in Detroit.

Cook, a 1960 electrical engineering graduate of the University of Tennessee, has 16 years' experience with the nondestructive testing group in the M&C Division, with major emphasis on ultrasonics. A member of the American Society for Testing and Materials, he is serving as chairman of the subcommittee on nondestructive testing. He is also past chairman of the Oak Ridge section of ASNT.

Cook, his wife, Bonnie, and sons, Greg and Keith, live at Route 1, Clinton.



retirements



George B. Kearns
Shift Operations
ORGDP
33 years service



Leonard C. Adcox
ORGDP Maintenance
30 years service



Orville D. Matlock
Fusion Energy, ORNL
33 years service



William O. Gentry
Gaseous Diffusion
Development ORGDP
30 years service



Al E. Ethridge
Guard Department
Paducah
26 years service



James C. Benedict
PGDP Maintenance
Engineering
26 years service



Samuel G. Beekman
PGDP Cascade Operations
25 years service

ORNL Summer Seminar Series

The last two ORNL Summer Seminar Series, a program of summer lectures for visitors, summer employees and regular staff, will be held on Tuesday, 3 p.m., East Auditorium.

July 26—Eric A. Hirst, "Energy Use, Conservation and Economics."

August 2—Gordon G. Fee, "Reactor Safety."

SEAT BELT USE

If all passenger car occupants used safety belts at all times, such use would save at least 12,000 lives annually by preventing ejection from the vehicle and reducing contact with the vehicle interior and other occupants.

recreationotes



ANOTHER ACE—John Hamilton, driving in the Y-12 tournament at Whittle Springs recently, aced hole number 16. The par-four, 260 yard, hole became his first hole-in-one, as he drove with a number three wood. Ed Ball, Ken Campbell and Paul Shell were also in the foursome.

PGDP ladies' golf . . .

Lady golfers now have a chance to take a "swing" at those challenging little 18 holes on the Paxton Park Golf Course in Paducah. The Ladies '77 Golf League officially began June 27 and will continue through August 29 each Monday evening at 5 p.m. Prizes will be given each night of play. All Carbide gals or Carbide wives are eligible to play. Come join your friends and get in on the fun!

Softball league. . .

The Snakes still keep an unblemished record in the Atomic League, and the Fes Kids and Streakers boast the same in the Carbon League.

League standings follow:

ATOMIC LEAGUE

TEAM	WON	LOST
Snakes	8	0
War Hogs	8	1
The Hawks	8	1
Shifters	6	1
Apaches	6	1
Over-The-Hill-Gang	5	1
Supersonics	7	2
Gashouse Gang	8	3
ESD	5	2
Bruins	6	4
Bad Nu's	5	4
Junk Yard Dogs	4	4
The Electric Bananas	4	5
Dugout Dummies	5	7
Short Circuits	4	6
BT Express	3	4
Arties' Army	3	5
Thunderdogs	2	5
Nads	2	6
Clinton Labs	2	8
Bio-Rejects	1	7
The Black Sheep	1	9
Beta 4 Bunters	0	8

CARBON LEAGUE

TEAM	WON	LOST
Fes Kids	11	0
Streakers	9	0
C.S.D.	8	2
Crippled Turkeys	8	2
Forty Niners	7	2
Knockers	7	3
Master Batters	5	3
Euler's Spoilers	6	3
Barrier Bombers	8	6
Killer Bees	6	4
Prime Time Players	6	4
League Leaders	5	4
Health Physiques	5	5
Fed #1	4	6
Foul Balls	4	6
Up-Towners	4	8
Stinton Stompers	3	6
Bombers	3	7
Odds & Ends	3	8
Fed #2	2	8
Tom's Turkeys	1	9
The Cad Pack	0	9
Pits	1	10



Engineering picnic

The Engineering Division's annual summer picnic was held at Clark Center Recreation Park, with more than 900 employees from all three Oak Ridge plants enjoying the festivities. More than 300 employees and their families attended from ORGDP, 253 from ORNL, 259 from Y-12 and 111 bought tickets at the gate.

Many participated in sports competitions at the picnic. General Engineering coached by Doug Legg won the softball competition. The tug-of-war was won by ORNL.

Engineering coached by Don Cannon. The women's volleyball tournament was won by the Employees Wives Pickup team. The men's hole-in-one championship was won by Brian Alenskis for the second year in a row, and the women's championship was won by Jennifer Spangler.

Live entertainment was provided throughout the day, and many enjoyed the arts and crafts exhibit featuring the Guy Colleach Collection of Wildlife Prints. A barbecue supper was the finishing touch to a fun-filled day.

Skeet league. . .

Y-12er Bert Searles took first place in June skeet firing with a 49.192, from a possible 500. ORNL's Roy Hicks and John Basler placed second and third with 47.760 and 46.793.

Hi power rifle league...

Jack Huff, Y-12, won the fifth match of the Carbide High Power Rifle League with a 470. Larry Weston was second with a 464 and L. Abbatiello placed third with a 460.

MORE LIGHT NEEDED

If your headlights don't seem as bright as they once were, here's why. Research shows that every 13 years your eyes require twice as much light as before in order that you may see as much. At age 46 you need four times as much light as you did at 30. Regulate your night speed accordingly.

wanted



Y-12 PLANT

JOIN CAR POOL from Grove Center area, Oak Ridge, to Pine Ridge or West Portal, straight days. Richard Tharpe, plant extension 3-7169, home phone 483-4489.

FORM CAR POOL from Corryton or Halls area to Central Portal, straight day. Marsha DeFord, plant phone 3-7359, home phone Knoxville 688-6357.

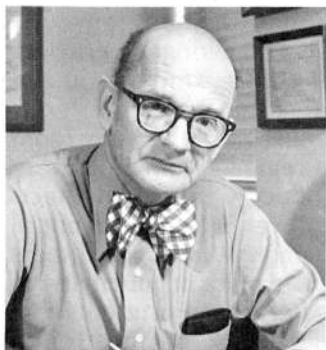
RIDE or will join car pool from Kingston to West Portal, straight day. L. L. Wilcoxon, plant phone 3-7854, home phone Kingston 376-9664.

ORNL

ONE CAR POOL member from West Beaver Creek Drive area, Knoxville, to East or West Portal, straight day. Paul Lantz, plant phone 3-1592, home phone Knoxville 947-7487.



THE KEEPERS—PGDP specie contest winners are shown with their prizes for the top ranking "keepers" in the bass and crappie category ending May 30. Back row from left are David B. Jones, James B. Pearson, James R. Harrison, and Roy C. Holladay. Second row from left are Jeanette Miller, Janean Conrad, J. D. Turner, Dorothy Pottinger and Laverne McDougal. Kneeling are Bill G. Cronin and Joe L. Williams.



medicine chest

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

QUESTION: In view of the poor confidentiality accorded many medical records in the United States, would you comment on the privacy with which Nuclear Division medical records are held? What authorization, e.g., is required for access, and what has the record been regarding both internal and external examination of such individual medical files?

ANSWER: The confidentiality of medical records in the Health Centers of the Nuclear Division is covered under two policy statements and a code of ethical conduct. In the UCC Safety, Health and Accident Prevention Program policy statement on page 9 under "Corporate Medical Department Functions, F. Medical Records," is the following statement:

"The maintenance of accurate and complete records of each employee is a basic requirement. The confidential character of these records, including the results of health examinations, must be rigidly observed by all members of the occupational health staff. Such records should remain in the exclusive custody and control of medical personnel. Disclosure of information from an employee's health record must not be made without his consent except as required by law."

Confidentiality of reports

In ERDA Contractor Occupational Medical Program, Appendix 0528-A, the following statement appears in Part IV, Medical Records—Minimum Requirements, under "B. Confidentiality:"

"The confidential character of all employee medical records, including the results of health examinations, shall be rigidly observed by all members of the occupational medical staff. Such records shall remain in the exclusive custody or control of the medical department. Disclosure of information from an employee's health record shall not be made without his consent, except as permitted by law."

In the Code of Ethical Conduct for members of the American Occupational Medical Association, the following appears: "Treat as confidential whatever is learned about individuals served, releasing information only when required by law or by over-riding public health considerations, or to other physicians

at the request of the individual according to traditional medical ethical practice, and should recognize that employers are entitled to counsel about the medical fitness of individuals in relation to work, but are not entitled to diagnoses or details of a specific nature."

When a request for medical information is received, we require a signed authorization for release of medical information. Naturally, when an employee's personal physician calls and wishes to learn results of laboratory tests, we will provide this information if the employee is under his/her care and the information is needed to expedite proper treatment.

Insurance 'rate ups'

We do not provide information, even with a signed release, to private life insurance companies. We have learned from sad experience that private insurance companies will sometimes penalize ("rate up") an employee because of a finding in a routine periodic physical examination, such as an elevated cholesterol, triglyceride or blood glucose. These findings should help employees improve their health and they should not be required to reveal them. We feel an insurance company should perform its own examination to determine whether or not a person is insurable. Insurance companies seldom require as comprehensive an evaluation as is routinely performed in the Health Centers. We have never heard of anyone being denied insurance because of our unwillingness to provide such information. We followed the lead of many large corporations who found themselves in the same predicament.

Released by court order

Medical records are released under court order and we will provide pertinent information to attorneys, provided a signed authorization from the employee is received. Almost all such requests are reviewed by our Law Department and the costs of providing the information must be paid by the attorney requesting it.

Medical information is occasionally provided to the UCCND Insurance Departments to support payment of a group insurance claim or to support an application for total and permanent disability. In such cases the employee has authorized such release.



CAMPAIGN PLANS—ORNL's 1977 United Way committee held its organizational meeting in June. On this year's committee are, from left, Marselle Ruszkowski, materials coordinator; Stan Ashton, assistant treasurer; George Joseph, solicitor training; Gordon Fee, installation chairman; David Eaker, treasurer; and Barbara Lyon, publicity. Associate chairmen for ORNL are Bob Keil, ATLC; and Emmitt Brown, IGUA.

anniversaries

ORNL

30 YEARS

William C. Waggner, Chemistry; James F. Land, Chemistry; Ernest W. Davis, Plant and Equipment; Roy W. Webber, Laboratory Protection; Paul Crawford, Plant and Equipment; Blaine Ward, Plant and Equipment; Lawrence R. Hall, Analytical Chemistry; and Herbert S. Brown Jr., Operations.

25 YEARS

Russel G. Jenness, Roy E. Thoma Jr., Charles S. Yust, Joel A. Carter, Geraldine O. Brown, Robert A. McNees Jr., Martha R. Childs and Kyle E. Sowder.

20 YEARS

Shirley J. Ball, Robert E. Minturn, Walter C. Cox, Karl W. Haff, Gladys M. Carpenter, Gerald E. Cosgrove Jr., Mary Helen Owen, Richard L. Becker, Burl F. Henry and Albert H. Gregory.

When a supervisor already knows of the nature of an illness of one of his employees and wants help in planning his or her rehabilitation, we try to cooperate. We prefer to wait until we have seen the employee ourselves and decide what restrictions may be necessary. The rehabilitation process requires much cooperation among the private physician, the plant physician, the supervisor and the employee.

Injuries which occur on the job represent a claim against the company and, therefore, sufficient information to determine whether or not an injury is compensable must be made available. The Safety Department also needs to know certain facts to determine whether or not an injury is chargeable against the safety record. Accidents at work also need to be investigated and the general nature of the injuries may be used in safety meetings in an effort to prevent recurrences.

We always try to do what is best for the employee-patient.

PADUCAH

25 YEARS

Elza Youngblood, Gilbert N. Henry, John P. Boutwell, Alfred J. Legeay Jr., Virgil E. Thomas, Rex D. Kluesner, James Johnson and Otis E. Crutchfield.

20 YEARS

James B. Wilkerson and James E. Courtney.

Y-12 PLANT

30 YEARS

Rudolph H. Pletz, Radiation Safety.

25 YEARS

John W. Stair, William C. Guettner and Ernest L. Pemberton.

20 YEARS

Ray H. Turner, Howard E. Schultz, Jack Johnson, Frank O. Russell and James E. Taylor.

ORGDP

30 YEARS

Vivian S. Watson, Medical Department; and Ralph M. DeLozier, Engineering Division.

25 YEARS

Troy N. Burklow Jr., John M. Baker, Emil C. Fortunato, Kenneth E. Roberson and Bobby L. Johnson.

safe thinking . . .

NYLON FAN BELT — A disabled car was in a risky position parked on the shoulder of a road . . . but not for long. The driver, a young woman, recognized what was wrong when she looked under the hood — the fan belt was broken.

Resourceful as well as knowledgeable, she fashioned a makeshift belt with her panty hose. It worked long enough to get her to the next service station.

Savings Plan-Personal Investment Account

Recent unit values:

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 75	11.9880	58.7886	7.8231
December 76	13.0554	59.2723	8.8167
April 77	13.4258	56.3605	7.9538
May 77	13.5196	52.4283	7.8699
June 77	13.6146	50.6769	8.2772

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 8.70% for 1977. Union Carbide stock values are the average cost of stock purchases during the month plus brokerage charges. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price for each unit is determined by dividing the total value of the securities by the number of units in the Fund.

wanted...

ORNL

RIDE wanted from Wartburg area to South or East Portal, ORNL. 8:00-4:30, straight days. Contact: Sue McDaniels, 3-1131.

RIDE wanted from Claxton area to East Portal, ORNL. 8:00-4:30 shift, straight days. Contact: Betty Queen, 3-6265, home phone 945-2992.

VAN POOL RIDERS from East Drive in Oak Ridge to North Portal. Betty Cornett, plant extension 3-6173, home phone 483-1818.

CAR POOL MEMBERS from areas of West Outer, Waddell, Pennsylvania or Hillside, Oak Ridge, to East Portal, 8:15 to 4:45. Tom Burnett, plant phone 3-6939, home phone 483-1975.

RIDE from Fox Den Condominiums, Watts Road Exit, 8:15-4:45. Sue Alley, 3-1604.

CAR POOL MEMBER from areas of Suburban Shopping Center, Kingston Pike or Walker Springs Road, Knoxville, to South Portal, 8-4:30. E. L. Fair, home phone 693-3211, plant phone 3-6775.

FIFTH CAR POOL MEMBER from vicinity of Landmark subdivision, Country Club Apartments or Gulf Park subdivision, Knoxville, 8:15-4:45. Jackie W. Sims, plant 3-1486, home phone 693-8829.

CAR POOL MEMBERS wanted from Lovell Heights area in Concord to North Portal, ORNL. Straight days, 8-4:30 p.m. Contact: Jerry Dixon, plant ext. 3-1108, home phone, 966-1232.

Wigner fellows

(Continued from page 1)

Laboratory of Molecular Biology in Cambridge.

Johnson received his B.S. in chemistry from Pennsylvania State in 1969 and his Ph.D. in chemical physics from the University of Illinois in 1976. In 1975, he was the recipient of the first fellowship granted by the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers. Johnson also has received a Hercules Fellowship and a Ford Foundation Fellowship. He lives at 448 Robertsville Road, Oak Ridge.

division death

John F. Pyatt, an assistant general supervisor in the Separation Systems Division at ORGDP, died July 2 at the Oak Ridge Hospital.

A native of Clinton, he joined Union Carbide in 1953.

Survivors include his wife, Margaret Pyatt, Route 3, Clinton; sons, Larry, David and Steve Pyatt; sisters, Louise Potter and Elizabeth Ann Pyatt; brother, Charles Pyatt; and mother, Clara Pyatt.

Funeral services were held at the First Baptist Church, Clinton, with interment in Tennessee Valley Memory Gardens.



Mr. Pyatt

Dangers of burning fossil fuels

Most dangers concerning the accelerated use of fossil fuels for energy are well known. However, four scientists from ORNL and Oak Ridge Associated Universities (ORAU) say that a very serious danger—one which could ultimately affect billions of people—needs further exploration. That danger is the atmospheric increases in carbon dioxide (CO₂) which results from burning fossil fuels. Within the next century, CO₂ increases might reach levels which could cause dramatic changes in the earth's climate, according to Oak Ridge scientists.

Researchers from Nuclear Division

In an article in the May-June issue of *American Scientist*, three ORNL researchers, Charles F. Baes Jr., Chemistry Division; Harold E. Goeller, Chemical Technology; Jerry S. Olson, Environmental Sciences; and Ralph M. Rotty, ORAU Institute for Energy Analysis; report that the problem of excess CO₂ in the atmosphere results from the increased rate of fossil fuel use that began with the Industrial Revolution. The article is entitled "Carbon Dioxide and Climate: The Uncontrolled Experiment."

The oceans, which are natural repositories for atmospheric CO₂, are more than large enough to handle all the fossil carbon man may ever produce. But man is producing it too fast, the authors state, and "this natural control mechanism may be far too sluggish to cope with the high rate of fossil fuel use." Within the span of a few centuries, man is releasing concentrated organic carbon that took millions of years to accumulate in sedimentary rock.

World-wide climate changes

And if the rate of fossil fuel use increases unabated, the amount of CO₂ in the atmosphere could double in the next 60 years. The resulting "greenhouse effect" would cause the climate to get warmer. Air temperature increases would probably become perceptible by the year 2000. But by then, the authors warn, it may be too late for any effective remedial action.

"At first thought a warmer climate might seem to be generally beneficial, with longer growing seasons that produce more food and milder winters that help save fuel," they continue. "However, any rapid change in a regional climate is more likely to produce detrimental effects that far outweigh the beneficial ones," reducing the biological fitness of species and the productivity of agriculture before adjustments can become effective. "The most often cited effect of a general warming is the rise in sea level that would accompany the melting of glacial ice," they note.

In the worst case considered—involving the maximum plausible use of fossil fuel and the maximum warming given by climate simulations—the temperature change would, in less than 100 years, exceed the changes normally occurring in a glacial cycle that takes tens of thousands of years to complete. "A climate change of such unprecedented rapidity can hardly be viewed as anything less than catastrophic," the authors state.

CO₂ release needs curbing

"Almost any summation of the possible societal cost from excess CO₂ becomes far too great to languish in the realm of academic debate," they continue. "If the severe economic and political repercussions that are likely on a world scale are to be avoided, a technological commitment must be made in the next two years and a world strategy arrived at with enlightenment and wisdom."

The authors stress that urgent action must be taken to develop a better understanding of the carbon cycle and to predict the consequences of climate change while there is still time to curb the release of CO₂ into the atmosphere.

BEHIND THE HEADLINES

Disasters are front-page news even though the lives lost in the United States are relatively few when compared to the day-to-day life losses from ordinary accidents.

Brister new P&E planner-estimator




Brister

Malcolm B. Brister, Plant and Equipment (P&E) Division at ORNL, has been promoted to planner-estimator in the Department.

A Union Carbide employee since 1956, Brister was previously an iron worker-rigger in P&E. Before joining Carbide, he worked for the Savannah River Project in Aiken, S.C.; Tucker Steel; and Maxon Construction Co., Oak Ridge.

Brister and his wife, Katherine, live at 114 Columbia Avenue, Knoxville. They have three children: Nancy, Patricia and Malcolm Jr.



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